

spicuous black and yellow bodies. A single sweep with an insect net captured some sixty or more specimens while a cloud of others flew away on being disturbed. I have also noticed similar groups of *Myzine* resting in the daytime in Massachusetts, but never so large a number on a single plant. An explanation for the gregarious habits of the male *Myzine* can readily be made when it is recalled that as the males seem to be more numerous than the females, the greater proportion of the males probably never take any active part in the economy of the species.

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## NEW NOCTUIDÆ FROM TROPICAL AMERICA.

BY WILLIAM SCHAUS.

### *Lycophotia microstigma*, sp. nov.

Head and abdomen grayish-buff. Collar buff posteriorly and also thorax dark lilacine brown. Primaries lilacine buff, thinly irrorated with dark scales, basal half of subcostal broadly creamy white, posteriorly shaded by dark velvety brown, which is cut by a white line crossing to base of vein 3, the brown in cell is interrupted by the orbicular which is large, round, lilacine white; the reniform small, consisting of a dark brown point beyond a lilacine white lunule; an outer curved row of dark points; some brown, shading beyond cell, and on outer margin above angle, and above vein 4; terminal triangular black spots between the veins; fringe light brown at base, terminally buff. Secondaries white; a dark interrupted terminal line. Expanse 28 mm.

*Habitat*: Castro, Parana.

### *Mamestra viriditincta*, sp. nov.

Head and thorax mottled fawn color and brown. Abdomen gray with brown subdorsal tufts and lateral fawn tufts. Primaries fawn color; base of inner margin dark brown; a dentate black basal line followed by a dark patch on costa; inner line black, angled below orbicular; median space dark olivaceous mottled with black; spots large, vague, partly outlined with black and containing olivaceous scales; outer line fine black, followed by some black points on veins; outer margin mottled with olivaceous and black; terminal black points; fringe fawn color spotted with black. Secondaries white; some brown on outer margin, and the ends of veins dark. Expanse 30 mm.

*Habitat*: Castro, Parana.

### *Mamestra flavidentula*, sp. nov.

Head and thorax gray; black lines on tegulæ and patagiæ. Abdomen blackish-gray. Primaries gray, mottled with brown, in, beyond and below reniform; black geminate basal lines on costa, a black streak at base of median, and another near

base of inner margin; inner line irregularly curved, geminate, outwardly black, inwardly brown; beyond inner line the veins are finely streaked with black; spots finely circled with black; median shade thick, black on costal margin and above submedian where it suffuses with the outer line; otherwise median shade is brownish; below the orbicular a black dentate line from inner line to median shade; outer line strongly dentate, blackish, fine; a series of black dashes between the veins on outer margin, each dash interrupted by a yellowish-white spot; fringe gray spotted with black. Secondaries white suffused with gray, darkest along outer margin; a discal spot; fringe white, divided by a black line. Expanse 40 mm.

*Habitat*: Chili.

**Mamestra goniophora**, sp. nov.

Head and thorax olivaceous brown. Abdomen dark gray; a subdorsal white tuft at base. Primaries dark olivaceous, markings pure white; a broad line at base, not reaching inner margin; an inner row of spots large on costal and inner margins; orbicular small, round; reniform large, irregular, surmounted by a white spot on costa; an outer row of points, very irregular; three small spots on costa towards apex; three larger spots at apex; four spots on outer margin between veins 2 and 5; a small spot at inner angle. Secondaries dark brown; costa whitish. Expanse 25 mm.

*Habitat*: Castro, Parana.

**Mamestra paranica**, sp. nov.

Head and thorax gray; the patagiæ edged with brown dorsally. Body grayish-brown. Primaries: veins steel-gray; base olivaceous; basal line black, outwardly white; inner line black, irregular, inwardly shaded with white; orbicular whitish, also a spot below it, and a space above it on costa; median space olivaceous, partly edged with black; reniform large, indistinct, dark gray and olivaceous; a finely lunular black outer line, the lunules filled with gray; outer space mottled olivaceous and gray, with some black spots and followed by the subterminal, which is wavy, white; outer margin gray, mottled with olivaceous; black terminal spots; fringe white and olivaceous. Secondaries whitish at base, otherwise dull brown; fringe white. Expanse 36 mm.

*Habitat*: Castro, Parana.

**Himella nigripars**, sp. nov.

♂. Head, thorax and primaries light brown. Abdomen dorsally and secondaries darker brown. Abdomen ventrally and anal tuft light brown. Primaries thinly irrorated with black scales; lines fine, darker; basal and inner lines wavy; outer line crenulate, followed by a row of black points on veins. Reniform partly outlined with black; an oblique black median line from costa to reniform, then as a brown shade to middle of inner margin; a pale subterminal line; black terminal points. Secondaries with black terminal points; a small discal point.

The female is darker, the lines distinctly reddish-brown; the orbicular consists of a minute black circle; the reniform is whitish, finely outlined with black containing a gray point anteriorly and a larger gray spot posteriorly; the median shade is entirely reddish-brown; the black dots on veins are close to the subterminal shade which is

more wavy, and there are no black terminal points; a terminal pale line; fringe roseate, spotted with gray. Expanse, ♂, 34 mm., from Costa Rica. Expanse, ♀, 35 mm., from Jalapa, Mexico.

These two specimens have been identified by Sir George Hampson as belonging to the same species; personally I should consider them distinct.

**Himella crocosticta**, sp. nov.

Head, thorax, and primaries lilacine brown. Abdomen and secondaries dull brown. Primaries: lines fine, black, wavy; the outer line slightly curved; a median darker shade; reniform small, ochreous; a subterminal wavy dark shade; a pale terminal line; veins tipped with white; some white spots on costa at apex. Secondaries: a terminal dark line; base of fringe pale. Expanse 28 mm.

*Habitat*: Orizaba, Mexico.

**Himella rubripuncta**, sp. nov.

Head, thorax, abdomen below and anal tuft light reddish-brown. Abdomen above and secondaries blackish. Primaries dark reddish-brown; basal line darker, geminate on costa; inner line wavy, black; median shade darker, oblique from costa to reniform, then straight to inner margin; reniform small, red, posteriorly shaded with black; outer line black, wavy, followed by dark points; subterminal shade black; white points on costa near apex and at tips of veins; a terminal whitish line. Secondaries paler at base; a black discal spot; base of fringe whitish. Expanse 29 mm.

*Habitat*: Orizaba, Mexico.

**Himella diplogramma**, sp. nov.

Head, thorax and anal tuft buff; collar posteriorly shaded with light reddish-brown. Abdomen dull gray brown. Primaries buff; an inner and a median short brown streak on costa; six black spots beyond middle of costa; inner margin violaceous brown; a median violaceous brown shade angled at reniform, followed by some fine dark streaks; orbicular as a black point; reniform large, dark gray, widest posteriorly; an oblique dark band from vein 2 to outer margin below apex, partly divided by a pale line, and preceded by some black streaks; a few black irrorationes on outer margin; fringe buff spotted with brown. Secondaries thinly scaled with brown gray. Expanse 28 mm.

*Habitat*: Las Vegas, Mexico.

**Himella ignescens**, sp. nov.

Head, thorax and abdomen below lilacine brown. Abdomen above blackish; anal tuft light brown. Primaries dark violaceous red; the reniform brighter red; no lines visible, only a darker irregular subterminal shade; a terminal pale line; fringe dark gray. Secondaries dark grayish-brown; a dark discal point; fringe light gray, partly divided by a dark gray line. Expanse 24 mm.

*Habitat*: Orizaba, Mexico.

**Himella goniostigma**, sp. nov.

Palpi inwardly, head and collar buff. Palpi outwardly, vertex and thorax dark brown. Abdomen grayish-brown. Primaries brown shaded with buff near base, in cell, and before subterminal line; a dark space at base crossed by basal line; inner line dark, geminate, oblique from costa to median, then wavy to inner margin; median shade dark, visible on costa and inner margin; orbicular dark, oblique; reniform large, dark velvety brown, edged with pale buff, constricted and broader posteriorly; outer line from middle of costa sharply curved around reniform, pale, preceded by small velvety brown spots between veins 3 and 7, and followed by a geminate row of dark points on veins; subterminal pale, nearly straight, inwardly edged with reddish-brown; the outer margin dark grayish-brown; terminal black points between the veins; fringe light brown with two darker lines. Secondaries whitish along inner margin, otherwise dark gray; a dark discal point. Expanse 27 mm.

*Habitat*: Guadalajara, Mexico.

**Himella ochrota**, sp. nov.

Body grayish-brown. Primaries light brown, irrorated with gray scales, chiefly on costal and outer margins, the latter being quite dark; the subterminal heavy, velvety black from submedian to vein 7; orbicular round, circled with dark gray; reniform broad, inwardly and outwardly shaded with dark gray, also with white outwardly. Secondaries whitish, the veins dark; gray irrorations along costa; a black discal spot, and a terminal black line. Expanse 28 mm.

*Habitat*: San Andres, Chalchicomula, Mexico.

**Himella marginalis**, sp. nov.

♀. Head, thorax and primaries very dark brown. Abdomen and secondaries dull dark brown. Primaries: traces of geminate and inner irregular black lines filled in with lighter brown; reniform large, indistinct, faintly outlined with lighter brown, and marked by four paler points; outer line fine, black, lunular, the lunules filled in with lighter brown, and followed on veins 2, 3 and 4 by a pale point between two small black dashes; a subterminal dark velvety brown spot between 5 and 6; the outer margin broadly gray, inwardly marked by two large whitish spots; a terminal black line; terminal black spots between the veins; fringe light brown spotted with black. Secondaries: a dark discal point; fringe light reddish-brown. Expanse 36 mm.

*Habitat*: Sao Paulo, southeastern Brazil.

**Himella gigantea**, sp. nov.

Head and thorax lilacine brown. Abdomen dark gray above; lilacine brown laterally; anal tufts yellowish. Primaries pale buff, tinged with lilacine on costal and inner margins and thinly irrorated with black; cell and outer margin tinged with light brown; a minute black spot in cell near base; inner line very fine, black, indistinct; orbicular small, reniform large, formed by a darker shade; outer line very fine, indistinct, followed by black points on veins; a subterminal fine brownish line; terminal gray spots between the veins; fringe light brown. Secondaries white; the costal margin and fringe buff; some black terminal points. Expanse 57 mm.

*Habitat*: Petropolis, Brazil.

**Himella mediorufa**, sp. nov.

Palpi and thorax reddish-brown. Head and abdomen dorsally brownish-gray; anal tuft ochreous. Primaries violaceous brown, irrorated with lilacine scales; lines paler, edged on either side with darker brown; the basal line indistinct; the inner line slightly curved; the outer line nearly straight; a slightly curved reddish-brown median shade separating the spots; the orbicular consisting of a circle of lilacine scales; the reniform larger, reddish-brown edged with lilacine scales; a dark, wavy, subterminal line; a terminal black line. Secondaries whitish; a small gray discal spot; an outer gray line; the outer margin broadly gray. Expanse 32 mm.

*Habitat*: Castro, Parana.

**Himella leucopera**, sp. nov.

Head, thorax and primaries lilacine brown. Abdomen brownish-gray above. Primaries: the lines and spots outlined with lilacine gray scales; costal and inner margins tinged with gray; the inner line outwardly curved below orbicular, which is round; the outer line outwardly curved beyond cell, inwardly curved below reniform which is large and slightly constricted, and this line is followed by geminate black points on veins separated by a lilacine point; subterminal pale, shaded with reddish-brown, and parallel with outer margin; an apical grayish spot; a dentate terminal pale line. Secondaries whitish clouded with gray at apex. Expanse 29 mm.

*Habitat*: Sao Paulo, southeastern Brazil.

**Himella violascens**, sp. nov.

Head, thorax and primaries lilacine brown. Abdomen above dark gray. Primaries: the spots, inner band, space between median shade and outer line, also the outer margin violaceous brown; a dark spot near base of cell; the inner line geminate; orbicular small, round; median shade close to reniform, which is large and faintly outlined by pale scales; outer line indistinct, geminate, followed by dark streaks on veins; subterminal fine, pale, dentate from apex to inner angle; a terminal black line followed by a pale line on base of fringe. Secondaries whitish at base, outwardly grayish; the veins gray; fringe buff, tipped with white. Expanse 32 mm.

*Habitat*: Guadalajara, Mexico.

**Himella secedens**, sp. nov.

Head and thorax lilacine brown. Abdomen above and secondaries dark gray; anal tuft fawn color. Primaries lilacine brown, thinly irrorated with black; lines very fine, black; basal line forming a black spot in cell; inner and outer lines partly edged with lighter brown; median shade dark, thick, chiefly visible on inner margin; outer line followed by a row of black points; a pale subterminal line edged with darker brown, slightly curved below costa, then straight to inner margin; a terminal pale wavy line; the spots large, formed by a pale line. Secondaries: a dark discal point; fringe roseate fawn color. Expanse, ♂ 32 mm., ♀ 36 mm.

*Habitat*: Castro, Parana.



**Himella pallescens**, sp. nov.

Head, thorax and anal tuft fawn color. Abdomen dull black above. Primaries lilacine fawn color, irrorated with black scales; lines very fine, black, indistinct; a black point at base of cell, and a similar point at orbicular; reniform large, consisting of a pale line inwardly edged with reddish scales, and with a black spot anteriorly and another posteriorly; a subterminal pale line; terminal black points; fringe at apex tipped with black. Secondaries dark gray; a dark discal spot; fringe pale. Expanse 32 mm.

*Habitat*: Sao Paulo, southeastern Brazil.

**Himella azucara**, sp. nov.

Head and collar light brown. Thorax dark brown. Abdomen and secondaries dull brown. Primaries light brown thickly irrorated with dark brown, the markings very indistinct; traces of dark basal, inner and outer lines; spots dark faintly outlined with light brown; the reniform marked by white spots on either side posteriorly; a faint pale subterminal line; fringe black, spotted with light brown. Secondaries: an indistinct discal spot; fringe paler, divided by a dark line. Expanse 37 mm.

*Habitat*: Sao Paulo, southeastern Brazil.

**Conservula furva**, sp. nov.

Head, collar and primaries reddish-brown. Abdomen above violaceous brown, the thorax somewhat darker. Primaries shaded with violaceous at base, on costa and beyond outer line, also the spots which are outlined with grayish scales; the orbicular small, oblique; the reniform large; the outer line angled on subcostal, then oblique to middle of inner margin, gray inwardly shaded with dark reddish-brown; the veins darker on outer margin; a darker brown subterminal shade edged with gray at costal margin; fringe violaceous. Secondaries whitish, the veins brown; a dark terminal line. Expanse 25 mm.

*Habitat*: Orizaba, Mexico.

**Hydræcia pexa**, sp. nov.

Head and thorax lilacine brown. Abdomen grayish-brown above. Primaries light brown; the base, orbicular, a spot below it, and subterminal shades ochreous brown irrorated with dark scales; inner and outer lines fine, black; median shade thick, dull brown; reniform large, white, with an ochreous spot and two dark brown lines; costal margin finely dark gray; outer margin dull brown; a terminal dark line. Secondaries gray; the veins brown. Expanse 32 mm.

*Habitat*: Oaxaca, Mexico.

**Hydræcia cauta**, sp. nov.

♀. Head gray. Thorax dark reddish-brown. Primaries blackish-gray; four small yellow spots on costa beyond outer line; a streak below costa, one in cell, the space below cell and a spot on inner margin all dark red, crossed by a fine inner lunular black line; reniform large, white, mottled with red; outer line fine, dentate, black, beyond which the wing is more brownish-red, crossed by a blackish subterminal

shade; a black terminal line, and a pale line on base of fringe, interrupted by white points. Secondaries dull brown; a dark discal point; fringe gray; at apex roseate, divided by a black line. Expanse 28 mm.

*Habitat*: Costa Rica.

***Perigrapha dukinfieldi*, sp. nov.**

Head, thorax and primaries lilacine brown. Abdomen darker with pale tufts at base. Primaries thinly irrorated with black scales; lines very fine, brown, geminate; basal line wavy, followed by a dark point outwardly shaded with white in cell; inner line oblique to cell, then straight; orbicular a dark point inwardly shaded with white; median shade thicker, strongly angled on reniform posteriorly; reniform large, circled with buff, then outwardly shaded with reddish-brown, and marked with black posteriorly; outer line curved below costa, the outer portion punctiform from vein 5 to inner margin; an interrupted reddish-brown subterminal line parallel to outer line; a terminal black line preceded by black points. Secondaries dull brown; fringe roseate. Expanse 45 mm.

*Habitat*: Sao Paulo, southeastern Brazil.

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**SOME NEW NEUROPTEROID INSECTS.**

BY NATHAN BANKS.

PSOCIDÆ.

***Psocus genualis*, sp. nov.**

Pale yellow; head with a median shining brown spot on ocelli, a patch of brown each side behind, and a median one on upper part of nasus. Lateral lobes of thorax shining black. Abdomen marked with black. Legs yellow; tarsi dark brown, tips of femur and base of tibia marked with shining black. Antennæ large, reaching beyond tips of wings: yellow on base, darker beyond, short pilose. Wings hyaline, venation brown, the radius pale till near angle of pterostigma, the forking of radial sector and the posterior cross-vein closing the discal cell white; the median white on base, and the cubitus and anal white to tip, where there is a brown spot; a smaller brown spot at base of the pterostigma. The discal cell is almost square. Length to tip of wings 6 mm.

One specimen from Austin, Texas, June (McClendon). Distinguished by markings of face, and the black knees. Similar in many respects to *P. novæ-scotiæ*, but with different markings.

***Psocus slossonæ*, sp. nov.**

Head pale yellowish, nasus with vertical dark lines, partly obsolete above; labrum black; palpi black; antennæ with basal joints brown, then pale till near middle, beyond which it is blackish. Vertex with about eight brown roundish spots